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 **TLR Plus**  
**REPORTAGE UNIT**  
**Operating Manual**

V.1.02  
By Roberto Paganelli 02-09-2005





## Guarantee

The equipment is warranted for a period of 2 years from the date of invoice (ex-works). The warranty does not cover faults provoked by carelessness, natural causes and parts subject to wear. In addition, the cost of labour and shipment is not covered. The warranty will be voided if the equipment is mishandled.

## Feedback

AEV welcomes your comments on our products. Your suggestions may be extremely useful to develop new equipment and manuals and this will be of benefit to you too! Let us have your comments on our products and we will be pleased to read them.

Send your information by e-mail to the following address: [service@aev.net](mailto:service@aev.net), or send a letter to the AEV SERVICE Department.

## Technical Support

If you require technical support, contact AEV SERVICE giving a clear and concise account of your specific problem. Quote the serial number of your equipment by referring to the AEV nameplate attached to the equipment itself as this is the most important piece of information to be provided.

Telephone: 39+051+6634711 Fax: 39+051+6634700

## Factory Service and Repairs

If problems arise while the equipment is being installed, consult this manual and check that the installation is being carried out properly. If the problems still cannot be solved, call the AEV SERVICE Department for further information. If the problem is a minor one we can a telephone call will probably suffice. If, on the other hand, the equipment is to be shipped to AEV for service or repairs, the AEV SERVICE Dept. will accept it only if the RMA return authorisation number has been provided. This number must be included in the shipping documents. We also recommend providing a detailed description of the fault which has occurred, the type of service needed and (if required) the name of the employee at the AEV SERVICE Dept. you have spoken to. No repairs will be made if the cost of shipment is charged to AEV. In this case, we will not accept the delivery.

## Shipping Instruction

When shipping the equipment to AEV, use the original package in order to be certain that it will be fully protected during handling. If you need the original package, call us for a new one.

If you ship the equipment in a different packing container, take care to provide a double package by interposing padding material between the two containers in order to fully protect the equipment during shipment. The package should be marked "FRAGILE" in red.

Remember that the RMA number must be clearly visible on the package. If it is not, the equipment will not be accepted.

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## SAFETY PRECAUTIONS

**IMPORTANT:** Carefully read this paragraph as it contains important instructions concerning operator safety and directions regarding the installation, operation and maintenance of the equipment.

Failure to observe the safety instructions and information given in this manual **constitutes an infringement of the safety rules and design specifications provided for this piece of equipment.**

**AEV S.p.A. declines all responsibility** if any one of the safety rules given herein is not observed.

**AEV S.p.A. declines all responsibility** if the end-user resells the product.

The equipment is to be used by people capable of operating it in a trouble-free manner and it is **assumed that they are aware of the following safety rules.**

- Keep this manual with the utmost care and close at hand so that it can be consulted whenever needed
- After unpacking the equipment, check it for condition.
- Avoid banging the equipment.
- The packing material (plastic bags, polystyrene, nails, etc.) must never be left within the reach of the children, as **these items are potential sources of danger.**
- Do not use the equipment in places where the temperature is not within the recommended range, as specified by the manufacturer.
- Before connecting the equipment, make sure the nameplate specifications correspond to the mains electricity supply (the nameplate is located on the equipment enclosure).
- Do not remove the sticker from the equipment as it contains important specifications and the relevant serial number.
- To join the equipment to the mains supply, use the power cord purchased with the equipment.
- The equipment must be used only for the purpose it was designed for.
- Abuse or misuse of the equipment is **extremely dangerous** for people, pets and property. The manufacturer declines all responsibility for damage and injury resulting from **improper use and mishandling.**
- Certain basic safety rules must be observed when using electrical equipment, in particular:
  - Never touch the equipment with wet and/or damp hands or other parts of the body.
  - Keep the equipment away from drops of water or sprinkling systems.
  - Never use the equipment near high heat sources or explosive material.
  - Do not introduce any extraneous matter into the equipment.
  - Do not allow children or untrained people to use the equipment.

When working or servicing the equipment outside, disconnect the power supply and wait at least 2 seconds before working on the equipment as required by current safety regulations.

In the event of faults and/or improper operation, turn off the

equipment, shut off the electrical power and call your dealer.

- Do not attempt to make repairs and/or adjustments when covers/guards or circuit boards are to be removed.
- Blown fuses inside the power supply indicate that there may be a fault in the power supply itself. The fuses must be replaced by qualified and authorised persons. It is advisable to call your nearest dealer.
- Call your dealer for any repairs and be certain original spare parts are used. **Failure to observe this rule may adversely affect the safety level of your equipment.**
- The equipment is to be connected to the mains supply and provided with adequate and efficient earth conductors.
- The electrical wiring must be done in compliance with current electrical codes CEI 64-8 "Electrical specification for domestic buildings".
- When installing, leave a clearance of at least 1 cm around the equipment to allow air to pass freely.

**NOTE. This piece of equipment has been manufactured to the highest standards of workmanship. It must be used properly and serviced as recommended to ensure long-term dependable operation.**



The installation must be done in order to be able to guarantee an easy access to the cable of feeding.

The device of dissection of the equipment is the cable of feeding, so it must be unconnected from the equipment every time it is necessary to do any type of maintenance.

## SICHERHEITSI NWEI SE

**ACHTUNG!** Die im folgenden Abschnitt beschriebenen Hinweise mit Sorgfalt lesen, da sie wichtige Informationen über die Sicherheit, die Installation, die Bedienung und die Wartung enthalten.

Die Nichterfüllung der Vorschriften oder der spezifischen Warnungen, die in diesem Handbuch enthalten sind, verletzt die Zeichnungs-, Herstellungs- und Bedienungssicherheitsnormen dieses Gerätes. AEV S.p.A. lehnt jegliche Verantwortung ab, auch wenn nur ein Teil der folgenden Vorschriften nicht erfüllt wird.

Nur Fachpersonal kann das Gerät benutzen und es wird vorausgesetzt, daß das zuständige Personal von diesen Vorschriften Kenntnis hat.

- Das vorliegende Handbuch soll für ein evtl. künftiges Nachschlagen mit Sorgfalt aufbewahrt werden; es soll sich in der Nähe des Gerätes befinden und soll leicht auffindbar sein.
- Nach der Entfernung der Verpackung, die Vollständigkeit des Gerätes prüfen. Falls einige Zweifel bestehen, verwenden Sie das Gerätes prüfen. Falls einige Zweifel bestehen, verwenden Sie das Gerät nicht und wenden Sie sich an den Händler.
- Mechanische Schocks vermeiden, die das Gerät beschädigen könnten.
- Das Verpackungsmaterial (Plastiktüte, Polystyrol, Nägel, u.s.w.) soll nicht in der Reichweite von Kindern verlassen werden, da es eine potentielle Gefahrquelle darstellt.



- Das Gerät soll nicht in Umgebungen verwendet werden, wo die Temperatur nicht innerhalb des Bereichs liegt, der gemäß den angegebenen technischen Merkmalen zugelassen ist.

- Vor dem Anschluß des gerätes prüfen ob die Schilddaten den Daten der elektrischen Versorgung entsprechen (das Schild ist auf dem Gerätegehäuse angebracht).

- Das Klebschild auf dem Gerät, das die wichtigsten Daten der Maschine und die Serien-nr. zeigt, soll nie entfernt werden.

- Für den Anschluß an das Versorgungsnetz kann nur das mitgelieferte Kabel verwendet werden.

- Das vorliegende Gerät kann nur für die Benutzung verwendet werde, für die das Gerät ausdrücklich ausgelegt wurde.

- Jegliche andere Benutzung ist als unsachgemäß zu verstehen und deshalb ist für Personen, Tiere oder Gegenstände potentiell gefährlich.

- Die Verwendung eines elektrischen Gerätes sieht die Einhaltung einiger Grundnormen vor, wie:
  - Das Gerät nicht mit feuchten oder naßen Händen oder Wasserspritzen ausgesetzt werden
  - Das Gerät soll nicht in der Nähe von Wärmequellen und wo Explosivstoffe vorhanden sind, verwendet werden Kein fremder Gegenstand in das Gerät einsetzen
  - Das Gerät soll nicht von Kindern und/oder unfähiges ohne Überwachung verwendet werden.

- Vor Reinigungs- und/oder Wartungsarbeiten soll das Gerät von der elektrischen Versorgung durch die Entfernung des Versorgungskabels ausgeschaltet werden und soll man 2 sek. abwarten, wie von den Sicherheitsnormen vorgeschrieben.

- Falls eine Störung oder eine Fehlfunktion des Gerätes vorhanden sind, sollen das Gerät und das Versorgungskabel vom Netz ausgeschaltet und keinen Eingriff an das Gerät durchgeführt werden.

- Keine Instandsetzungs- und/oder Einstellungsarbeit durchführen, die die Entfernung von Deckeln oder das Herausziehen von Karten vorsehen.

- Das Brechen der Sicherung innerhalb des Netzteils ist ein Zeichen einer generellen Störung des Netzteils; das Netzteil kann nur von autorisiertem Personal ersetzt werden. Wir empfehlen, sich an den Händler zu wenden.

- Für eine evtl. Instandsetzung von Original-Ersatzteilen forden. Die Nichteinhaltung der o.g. Empfehlung könnte die Sicherheit des Gerätes beeinträchtigen.

- Das Gerät soll an das Versorgungsnetz angeschlossen werden, die mit ordnungsgemässer und wirksamer Erdung ausgestattet werden soll.

- Die Ausführung der elektrischen Anlage soll den CEI Normen 64-8 "Normen der elektrischen Anlagen für Zivilgebäuden" entsprechen.

- Während der Installation ist es ausdrücklich, einen freien Raum von 1 cm um das Gerät vorzusehen, um eine ordnungsgemässe Belüftung gewährzuleisten.

**N.B.: Das Gerät is fachgerecht hergestellt. Die elektrische und mechanische Zuverlässigkeit wird erhalten, wenn das Gerät ordnungsgemäss benutzt wird und wenn die Wartungsvorschriften, falls vorgesehen, beobachtet werden.**



**Durch diese Installation wird der Zutritt zur Speisungskabel garantiert.**

**Die Abteilungsvorrichtung dieses Apparates ist eigentlich**

**die Speisungskabel, deswegen ist es nötig den Apparat unverbinden, wenn man braucht jeder.**

**Instandhaltung zu machen.**

## PRECAUTIONS

**ATTENTION**, lire toutes les instructions donnè es dans ce paragraphe car elles concernent la securité, l'installation, l'emploi et l'entretien.

Ne pas accomplir les règles et les précautions spécifiques données dans ce manuel **est une violation des règles de sécurité de dessin, de construction et d'emploi de cet appareil.**

AEV S.p.A. décline toute responsabilité si on ne suit pas même seulement une partie de ces précautions.

AEV S.p.A. décline toute responsabilité si l'utilisateur final revend le produit.

L'emploi s'adresse à un personnel qui est en mesure d'utiliser cet appareil **et qui connaît les précautions suivantes.**

- Garder soigneusement ce manuel pour toute autre consultation. Il doit être gardé près de l'appareil ou dans un lieu où on peut le trouver avec facilité.

- Après avoir enlevé l'emballage il faut s'assurer de l'intégrité de l'appareil. Si on a quelques doutes ne pas utiliser l'appareil et s'adresser au détaillant.

- Eviter des shocks mécaniques qui peuvent endommager l'appareil.

- Les éléments de l'emballage (les sachets de plastique, le polystyrolène, les clous, etc. ) ne doivent pas être laissés à la portée des enfants car ils peuvent être un danger pour eux.

- Eviter l'utilisation de l'appareil dans des lieux où il n'y a pas une tempera ture qui est dans l'intervalle admis par les caractéristiques techniques déclarées.

- Avant de connecter l'appareil vérifier que les données de la plaque correspondent à celles du réseau de distribution électrique (la plaque est située sur le conteneur de l'appareil).

- Ne jamais enlever (pour n'importe quelle raison) la plaque adhésive qui se trouve sur l'appareil et qui contient les données essentielles de la machine et la matricule.

- Pour la connexion au réseau d'alimentation utiliser seulement le câble de réseau qui est vendu avec l'appareil.

- Cet appareil devra être utilisé seulement pour l'usage dont il a été conçu.

- Tout autre usage doit être considéré impropre et donc potentiellement dangereux pour les personnes, les animaux et les choses: Le constructeur n'est pas responsable pour les dommages qui dérivent des usages impropres, erronés et irraisonnés.

- L'usage d'un appareil électrique prévoit l'observation de quelques règles fondamentales. En particulier:

- Ne pas toucher l'appareil avec vos parties du corps ouillées et/ou humides.
- L'appareil ne doit pas être exposé à stillation et /ou aux jets d'eau.
- Ne pas utiliser l'appareil près des sources d'une forte chaleur et en présence d'explosifs.
- Ne pas chercher à introduire des objets étrangers dans l'appareil.
- Ne pas permettre que l'appareil soit utilisé par des enfants et / ou par des incapables sans surveillance.



- Avant de faire n'importe quelle opération de nettoyage et / ou d'entretien, débrayer l'appareil du réseau d'alimentation électrique en enlevant le cordon de réseau et attendre au moins 2 secondes, en suivant ainsi les normes qui régularisent la sécurité.

- Si on a une panne et / ou un mauvais fonctionnement de l'appareil, il faut l'éteindre, déconnecter l'alimentation, ne pas l'endommager et s'adresser au détaillant.

- Ne pas chercher à faire une réparation et / ou une mise à point qui rend nécessaire le déplacement des couvercles ou l'extraction des fiches.

- La rupture du fusible dans l'alimentation signifie qu'il y a une panne de l'alimentation même; son remplacement doit être fait seulement par le personnel autorisé. On conseille de s'adresser directement au détaillant.

- Pour une réparation s'adresser au détaillant et exiger l'utilisation des pièces de rechange originales. Ne pas respecter ces normes peut compromettre la sécurité de l'appareil.

- L'appareil doit être connecté au réseau d'alimentation qui a une ligne de terre réglementaire et fonctionnante.

- L'exécution de l'installation électrique devra être conforme à la norme C.E.I 64-8 "Normes des installations électriques dans les édifices civils".

- Quand on installe l'appareil on doit prévoir un espace libre autour de lui d'à peu près 1 cm pour garantir une bonne aération.

**N.B. L'appareil a été construit dans les règles de l'art. La fiabilité électrique et mécanique sera toujours efficace si on utilise correctement l'appareil et si on respecte les prescriptions d'entretien.**



**L'installation doit être faite de façon à consentir un simple accès au câble d'alimentation.**

**Le dispositif de sectionnement de l'équipement est le câble d'alimentation. Il est pourtant nécessaire de le détacher chaque fois on nécessite de pratiquer n'importe quel genre d'entretien.**





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## Introduction

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### General features

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TELEREPORT Plus is the new portable phone device (with echo canceller) devised by AEV ultra-decennial experience in the broadcasting phone systems sector.

Its reduced size and weight are the ideal solution for reporting services by audio transfer both via dial-up and mobile phone lines.

It is specially suited for conditions where the available operative range for the reporter is limited.

This device is housed inside a shock-resistant case. On the upper panel, with the keyboard, there is a LCD display (65x14), which displays the instrument status and all the standard displays usually found on GSM mobiles. The scrolling between menus is carried out with the keys "ARROW KEY", also located on the front panel with the numeric keyboard, which is used for dialing and to store/recall the corresponding numbers.

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### Main functions

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- ◆  $\mu$ P total operation, which, via a DSP circuit, allows the blanketing of line echo, in the event of a call on a dial-up line.
- ◆ Parametric filter able to equalize the incoming audio signal, thus optimizing the frequency response and gain of the signal received based on the quality of the line available.
- ◆ Option of a GSM internal module, with external aerial: it can be connected to the TELEREPORT PLUS via the connector located on the front panel. A connector "CELL" is also present, this allows to use an external GSM.
- ◆ NiMH high efficiency inside batteries. Their recharging is controlled by a specific circuit, assuring maximum efficiency and life.
- ◆ Ringing and busy tones detection.
- ◆ DTMF tones detection and replay.
- ◆ Generation of the test tone to adjust the audio via the phone line.

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### Main features

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- ◆ Two inlets, which MICRO/LINE selection is carried out with the switch located on the rear panel.
- ◆ Two headset outlets with the volume adjustable directly with the specific keys on the keyboard located on the upper panel, with level range on display.
- ◆ REC outlet, with the volume adjustable from the specific menu and level range on display.
- ◆ With the upper panel keyboard and with the display it is possible to access different functions such as:



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- Regulation of micro/line 1 and 2 input levels.
- Regulation of the REC output level.
- Regulation of the parametric equalizer (frequency and gain).
- Enable auto-hook.
- Signal of low batteries.
- 10 Memories.

The menus are designed to enable a quick access to all functions in order to change the required parameters.

### Upper panel



- 1 - Alphanumeric display.
- 2 - Keypad for numbers keying in and storing/recalling.
- 3 - Arrow Keys for shifting and for parameters settings within the menus and sub-menus.
- 4- Specific keys for regulating the head-sets level.

### Front panel



- 1- On switch.
- 2- Hook-on line Switch.

- 3- Aerial connector (where available the internal GSM option)
- 4- SIM CARD slot (where available the internal GSM option)

### Rear panel



- 1- 5Vdc Battery charger connector
- 2- Charged battery signal led
- 3- Recharging battery signal led
- 4- Input for micro/line 2
- 5- Input selector for micro/line 2
- 6- Input selector for micro/line 1
- 7- Input for micro/line 1
- 8- Phone line connector
- 9- Rec output
- 10- Output for headset 2
- 11- Output for headset 1
- 12- Connector for external GSM connection

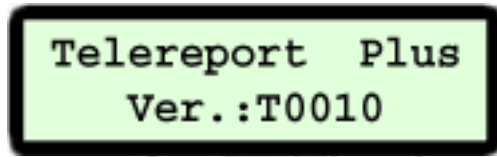


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### Operations

Now, we shall analyze Telereport Plus different setups.

On switching on, it is displayed the device I.D. and the software version installed, this data will be requested by AEV customer service, when calling.



After this menu, it will be displayed, in sequence, a series of tests carried out by Telereport Plus, these are: "Sim Absent ....!", "Network Wait...." and "GSM Wait....". These messages are standard, at the end of this operation, if the GSM option is installed and activated, the following menu is displayed, which also displays the type of network and the signal received.

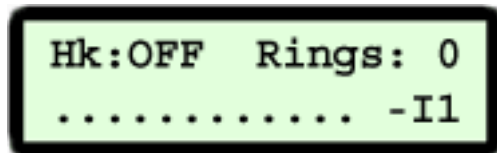


It is important to point out some modalities which are always used for the different menus shifting and settings.

With the "Arrow Keys" ↑ and ↓ you can shift within the menus; by pressing both, you can access the Advanced Menu, which allows to carry out changes to those parameters almost exclusively requiring a starting setup, following a Telereport Plus purchase, and which, once carried out, are not necessary to change again.

With the "Arrow Keys" ← and ⇒ the parameter value on display at the time can be changed.

If, on the other hand, the GSM option is not available or was disabled with the Advanced Menu, the following information is displayed.



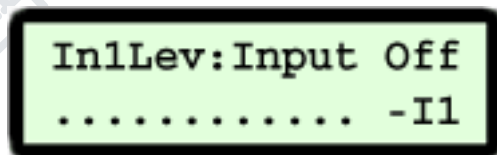
From this display, it is possible to view that the line was not hooked on "Hk:OFF" and that no calls are coming through "Rings: 0".

If there is an incoming call, you'll see the number besides Rings increasing at each ring, when the line is hooked on, the display shows "Hk:ON"; when the call is ended by the reporter, the message "CarrLost" appears. Let's finish with the last available display, which is pertinent to the line engagement; when it is displayed "C Det OK", it means the Telereport Plus is informing you there is a line signal.

Now, let's view the basic menus you can access, first, by pressing ↓.

This menu is related to input 1 level, obviously it can be either of the Micro or the line type, in relation to the position of the switch located on the rear panel.

The first menu highlights that input 1 is "off".

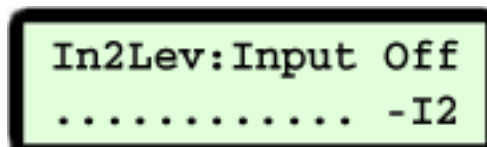


The second one graphically displays the level set with ← and ⇒.



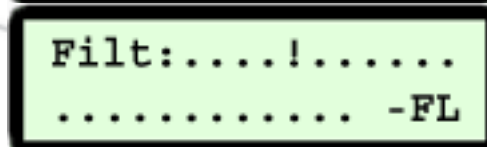
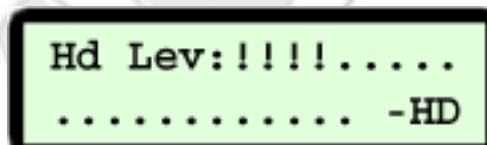


In the same manner, by pressing ↓, you can access the menus related to the second inlet.



If you press ↓ once again, you can access the menu pertinent to the adjustment of the level of the headsets output.

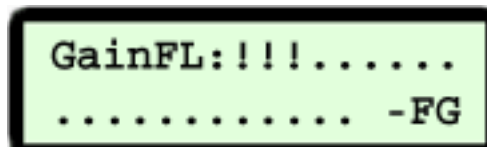
There are two outputs for the headset, their control is not separate, so they activate both at the same time. For this function only, it can be used both ← and → and the specific keys dedicated to this function - and +.



If you press ↓ once again, you can access the menu pertinent to the adjustment of the parametric filter.

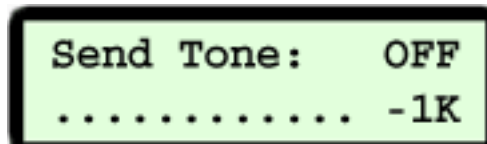
With ← and → you can shift the frequency of the parametric filter between 820 and 2750 Hz in 32 steps, so as to optimize the receiving signal.

By pressing ↓ once more, you can access the menu pertinent to the gain of the frequency selected by the parametric filter.

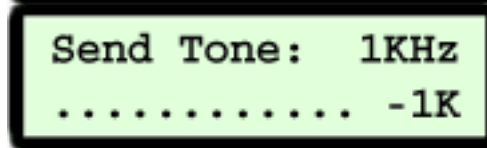


With ← and → you can change the gain/attenuation between -10 ÷ +10 dB.

The final menu you can access by pressing ↓ is the one pertinent to the generation of the test list at 1 KHz for optimizing the calibration of the audio instruments connected to the 2 wire telephone line.



As usual, the values OFF and 1 KHz can be set with ← and →.



### How to make a call

To make a call, key in the requested number with the numeric keypad (upper panel nr.2), then, press the Hook key (front panel nr.1).

In case during keying in there is a digit error, the last number can be deleted with the key ←.

If the number you have to key in is of the type +390516634711, you have to replace the character + with 00, therefore, the number keyed in is 00390516634711.



### How to store numbers

TELEREPORT Plus holds 10 locations to store the phone numbers most frequently used.

To store them, it is necessary to key in the number, then press the key #, on display will appear a prompt requesting you the number of memory store to which it is to be associated "Store mem 0-9", press a number between 0 and 9. During this operation, if in the location selected was already stored another number, this is overwritten.

### How to recall stored numbers

To recall a number, press # and the number of the required store memory location, the number will appear on display, from here, therefore, you can call by pressing the Hook key.

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### Advanced menus

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As previously stated, a series of personalized advanced menus are available, they can be accessed by pressing the two keys ↑ and ↓ at the same time. The different options available are described below.

This menu allows to carry out the selection of the type of phone interface used, if of the 2 wire telephone line (usual phone pair) or GSM type.

- Advanced Setup  
Intf.Type: 2Wire
- Advanced Setup  
Intf.Type: GSM
- Advanced Setup  
Inp 1 ALC: On
- Advanced Setup  
Inp 1 ALC: Off
- Advanced Setup  
Inp 2 ALC: Off
- Advanced Setup  
Inp 2 ALC: On
- Advanced Setup  
2WDialM.: PULSE

With the following menus, it is possible to enable the ALC control for the inputs.



These menus allow to select the type of numeric combination. Nowadays, almost everywhere, the TONE (DTMF) mode is available.



In the event it is to be used the PULSE mode, further parameters are selectable, The standard for Italy is 1.5-10, for Portugal and Spain is 2-10, for other countries, please check on site the standard requested.

Amongst the facilities are available an automatic answer mode "Auto-Answer" and an automatic redial mode "Auto-ReDial".

The available options for Auto-Answer are: "Off" (disabled) in this case, to answer, it is necessary to press the specific key on Telereport Plus front keypad, "1" after 1 ring the line is automatically hooked, "3" after 3 rings the line is automatically hooked, "5" after 5 rings the line is automatically hooked.

The available options for the automatic recall are: "Off" option disabled, "1" it carries out 1 recall attempt, "3" it carries out 3 recalls attempts "5" it carries out 5 recalls attempts, "255" it carries out 255 recalls attempts.

The menu "Beep" allows to enable the buzzer for incoming calls only or for both incoming calls and pressing of keys located on the upper panel.

- Advanced Setup  
2WDialM.: TONE
- Advanced Setup  
2WP1Mo: 1.5 - 10
- Advanced Setup  
2WP1Mo: 2 - 10
- Advanced Setup  
AutoAnswer: Off
- Advanced Setup  
AutoAnswer: 1
- Advanced Setup  
AutoAnswer: 5
- Advanced Setup  
AutoReDial: Off
- Advanced Setup  
AutoReDial: 1
- Advanced Setup  
AutoReDial: 255
- Advanced Setup  
Beep: Call In
- Advanced Setup  
Beep: CallIn&Keys



This menu is a reading only menu, informing you whether the internal GSM option is or is not installed.

**Advanced Setup  
GSM:NotInstalled**

**Advanced Setup  
GSM: Installed**

Lastly, the languages menu allows you to select amongst English, Italian, Spanish and Portuguese.

**Advanced Setup  
Language: ENG**

**Advanced Setup  
Linguaggio: ITA**

**Advanced Setup  
Idioma: ESP**





## Technical Specification

### MICROPHONE INPUT

Configuration	Transformer Balanced Input (EMI Filtered)
Input impedance	200 $\Omega$ balanced
Input Level Range	-60 dBu ÷ - 50 dBu adjustable
Frequency Response	100 Hz ÷ 6 KHz
Noise	-63 dBu (din Audio)
Connector	6 mm Jack stereo female
ALC Control Range	between -60 ÷ -40 dBu
ALC Attack Time	10 mSec
ALC Release Time	2 Sec

### LINE INPUT

Configuration	Electronic Balanced Input (EMI Filtered)
Input Impedance:	20 K $\Omega$ electronically balanced
Input Level Range	0 dBu $\pm$ 12 dB adjustable
Frequency Response	100 Hz ÷ 6 KHz
Noise	-66 dBu (din Audio)
Connector	6 mm Jack stereo female

### HEADPHONE OUTPUT (EMI FILTERED)

Power	2x160 mW @ 50 $\Omega$ level adjustable
Frequency Response	100 Hz ÷ 6 KHz
Connector	6 mm Jack stereo female

### REC OUTPUT (EMI FILTERED)

Output Impedance	100 $\Omega$ unbalanced
Output Level	0 dBu fix
Frequency Response	100 Hz ÷ 6 KHz



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Connector 6 mm Jack stereo female

### HYBRIB CIRCUIT

Standard Specification ETS 300001 (NET4)

Impedance 600 Ω (EMI Filtered)

RX Level -10 dBu (adjustable gain -6 ÷ +18 dB)

TX Level 0 dBu

Hybrid null -40 dBu full band

Frequency Response 230 Hz ÷ 3400 Hz

Distortion 0.8 %

Connector RJ11 4 pins

### INTERNAL GSM (OPTION)

Standard Freq. 900/1800 (1900 on request)

Frequency Response 200 Hz ÷ 3700 Hz

Antenna Connector SMA Female

### MOBILE CONNECTOR (FOR EXTERNAL GSM)

TX Level -10 dBu

RX Level -6 dBu

Connector RJ11 6 pins

### GENERAL DATA

Power Supply 3 battery (NI-MH) 1.2 V 2300 mAh

Power Consumption 300 mA - With GSM: Rx 500 mA - Tx 800 mA

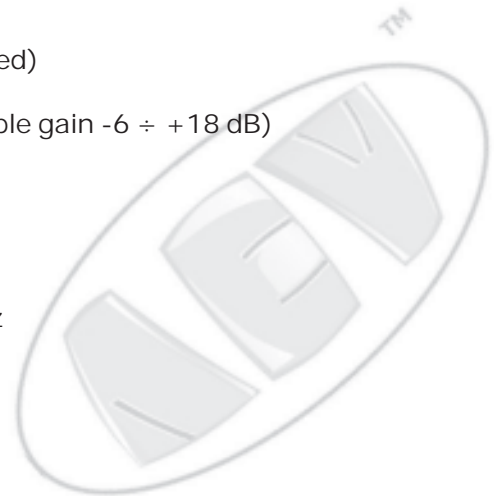
Autonomy 7.5h standard operations Max 2.5 with GSM

External Supply 5 Vdc 500 mA

Dimension (WxHxD) 14 x 44 x 19 cm

Weight 0,8 Kg (With internal GSM option)

Operating Temp. 0 ÷ 50° C





Note

Electronic Equipment



Electronic Equipment